

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070925\
 Data File : VN087309.D
 Acq On : 09 Jul 2025 12:56
 Operator : JC\MD
 Sample : VN0709WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBL01

Quant Time: Jul 10 01:25:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

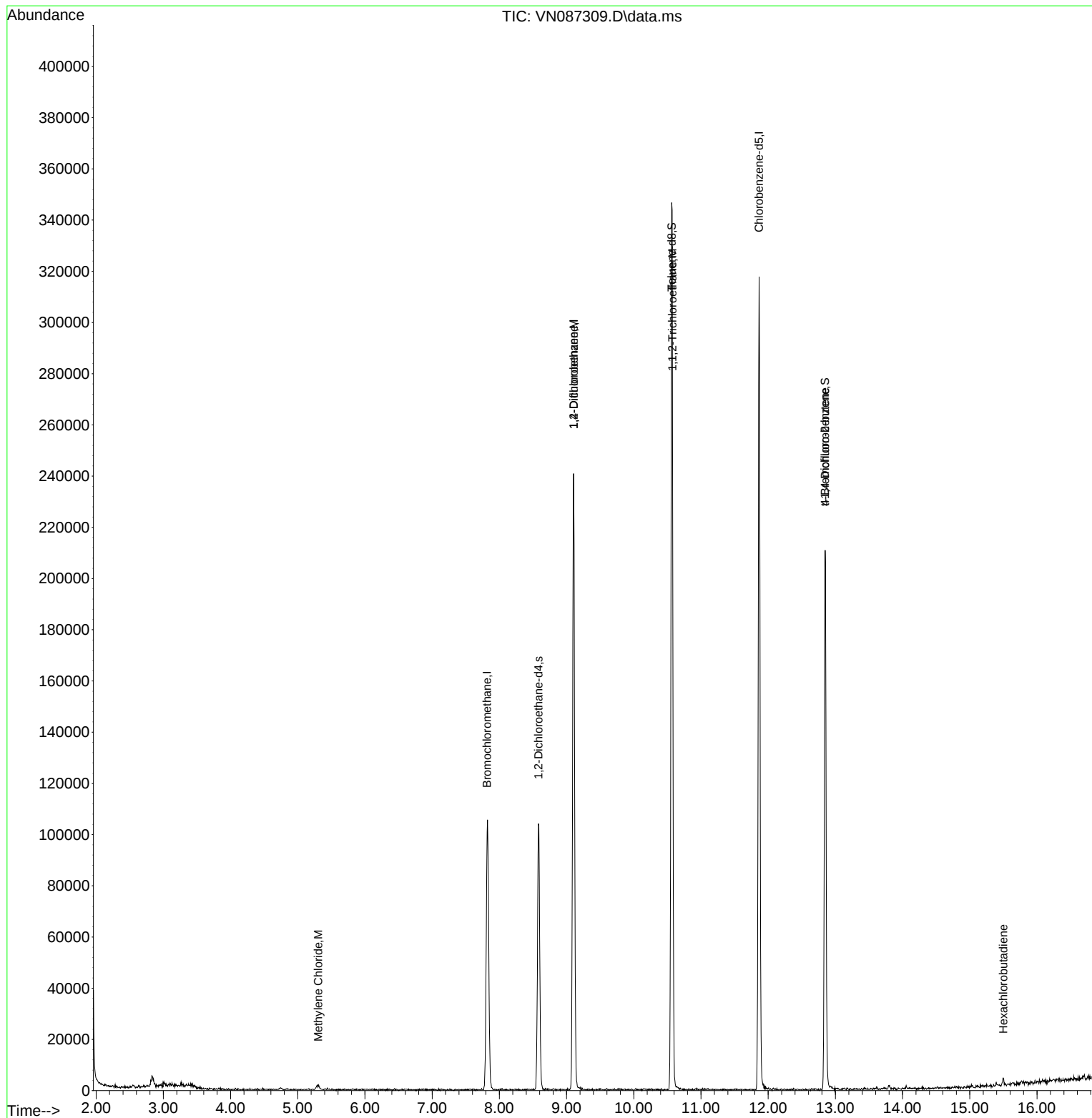
Internal Standards						
1) Bromochloromethane	7.818	128	41807	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	215919	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	195049	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	89056	28.272	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	94.233%	
60) 4-Bromofluorobenzene	12.847	95	82343	27.358	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	91.200%	
63) Toluene-d8	10.565	98	251523	28.720	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	95.733%	
Target Compounds						
					Qvalue	
18) Methylene Chloride	5.306	84	1392	0.474	ug/l #	28
36) 1,2-Dichloroethane	9.106	62	6816	1.979	ug/l #	75
50) 1,1,2-Trichloroethane	10.576	97	9194	3.557	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.847	75	41289	27.315	ug/l #	13
90) Hexachlorobutadiene	15.500	225	523	0.644	ug/l	62

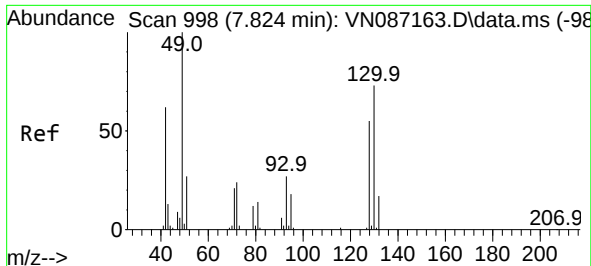
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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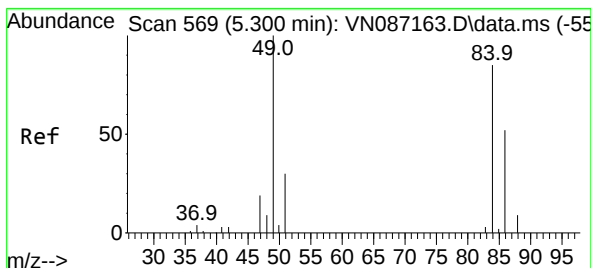
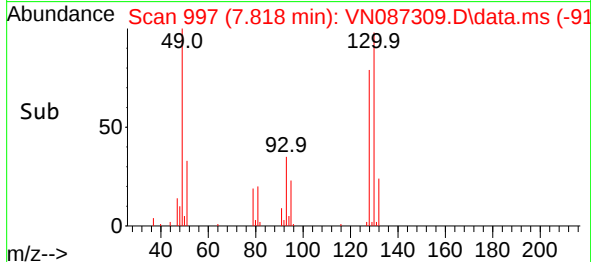
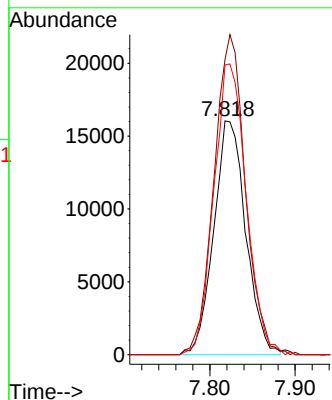
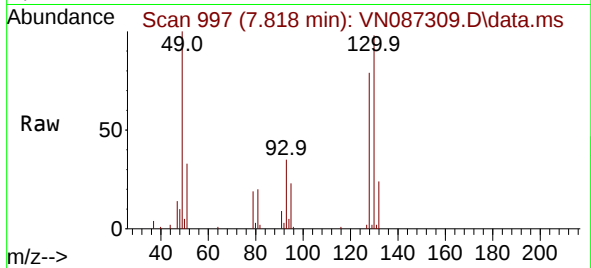




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

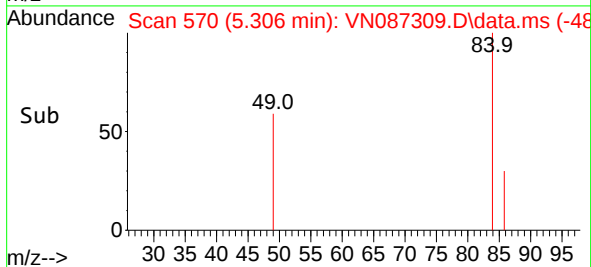
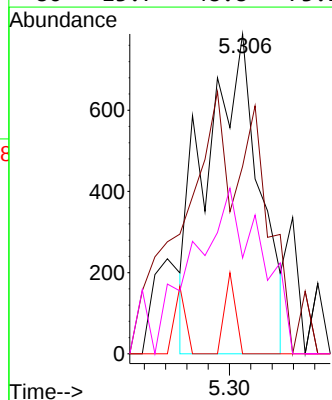
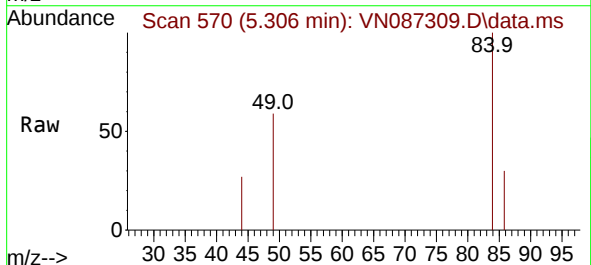
Instrument :
MSVOA_N
ClientSampleId :
VN0709WBL01

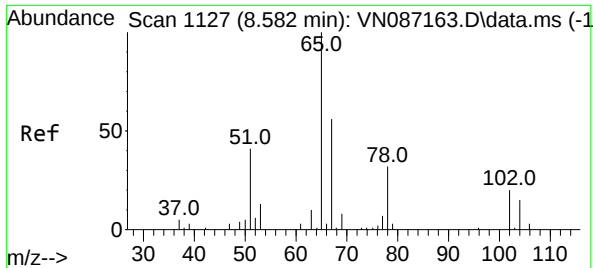
Tgt Ion:128 Resp: 41807
Ion Ratio Lower Upper
128 100
49 134.5 0.0 450.5
130 126.5 0.0 320.7



#18
Methylene Chloride
Concen: 0.474 ug/l
RT: 5.306 min Scan# 570
Delta R.T. 0.006 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

Tgt Ion: 84 Resp: 1392
Ion Ratio Lower Upper
84 100
49 28.5 94.0 141.0#
51 0.0 28.3 42.5#
86 13.7 48.8 73.2#

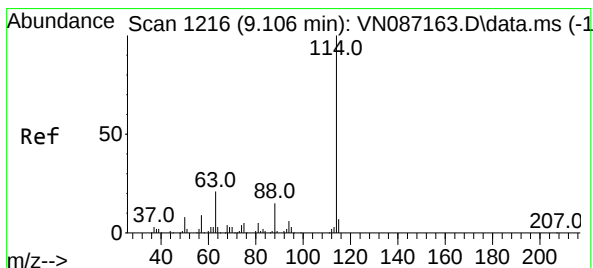
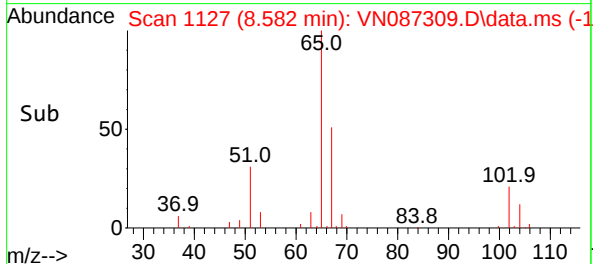
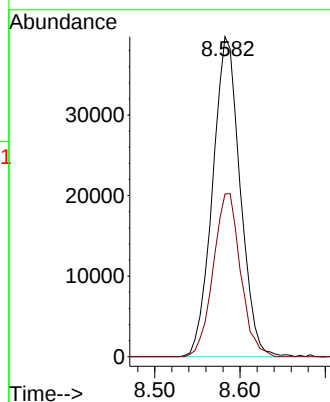
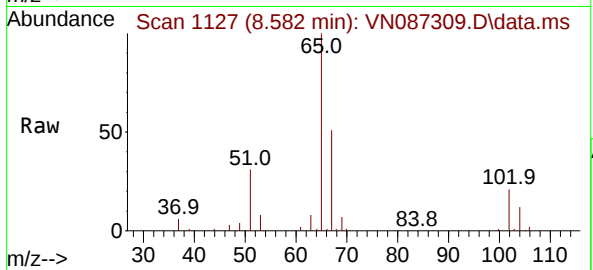




#27
 1,2-Dichloroethane-d4
 Concen: 28.272 ug/l
 RT: 8.582 min Scan# 1127
 Delta R.T. -0.000 min
 Lab File: VN087309.D
 Acq: 09 Jul 2025 12:56

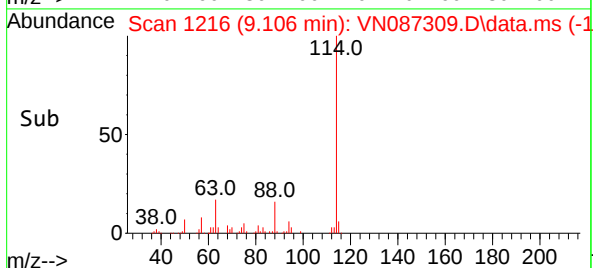
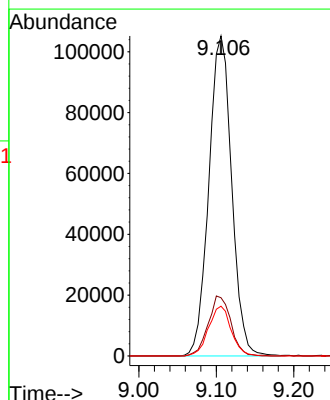
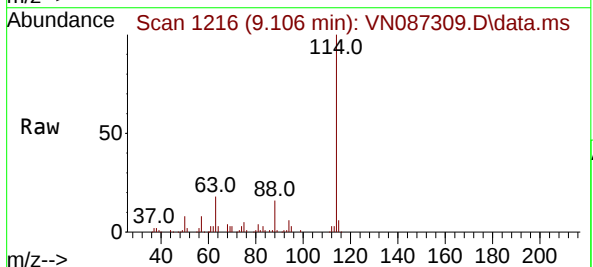
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0709WBL01

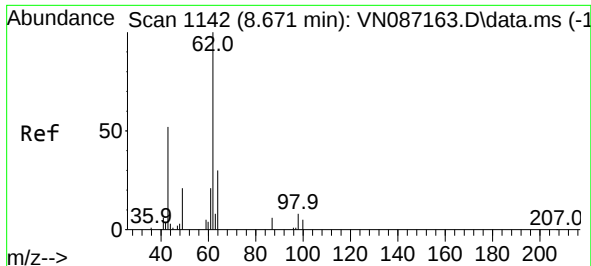
Tgt Ion: 65 Resp: 89056
 Ion Ratio Lower Upper
 65 100
 67 50.6 41.9 62.9



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. -0.000 min
 Lab File: VN087309.D
 Acq: 09 Jul 2025 12:56

Tgt Ion: 114 Resp: 215919
 Ion Ratio Lower Upper
 114 100
 63 18.5 17.0 25.4
 88 15.4 12.6 19.0





#36

1,2-Dichloroethane

Concen: 1.979 ug/l

RT: 9.106 min Scan# 1142

Delta R.T. 0.435 min

Lab File: VN087309.D

Acq: 09 Jul 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

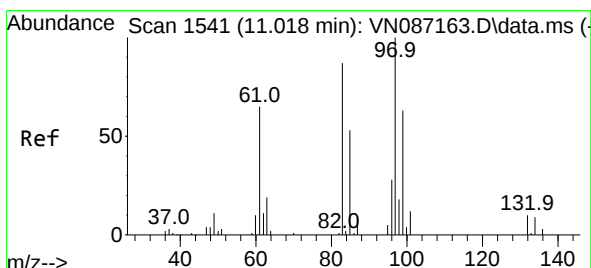
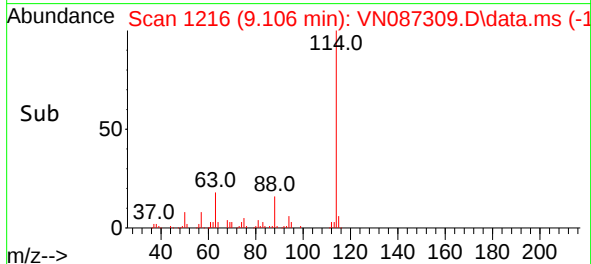
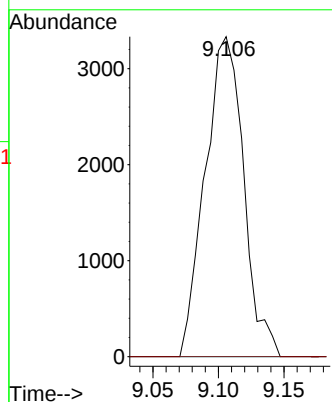
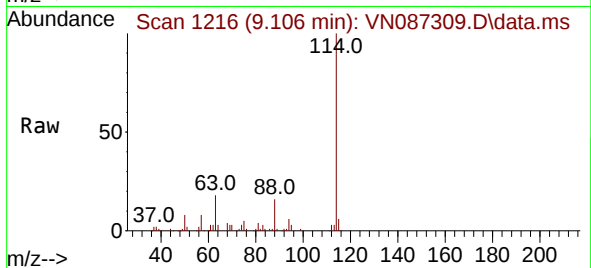
VN0709WBL01

Tgt Ion: 62 Resp: 6816

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#50

1,1,2-Trichloroethane

Concen: 3.557 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.441 min

Lab File: VN087309.D

Acq: 09 Jul 2025 12:56

Tgt Ion: 97 Resp: 9194

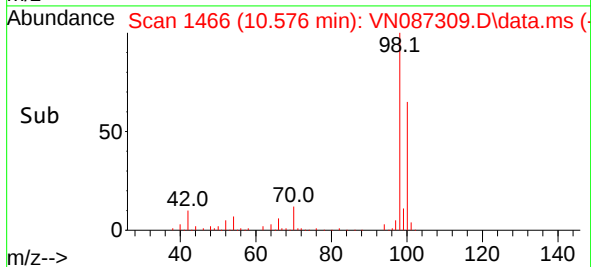
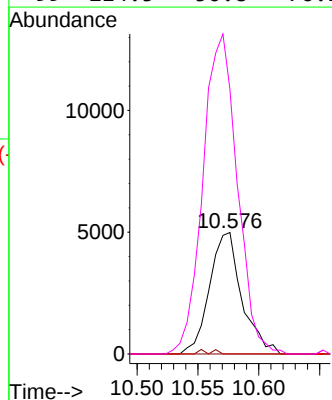
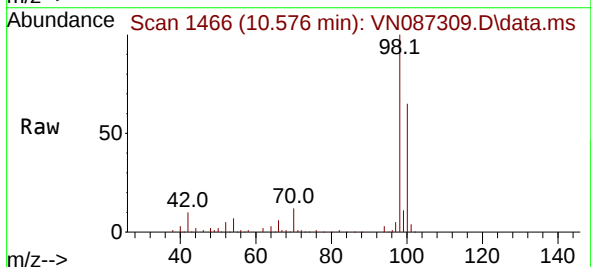
Ion Ratio Lower Upper

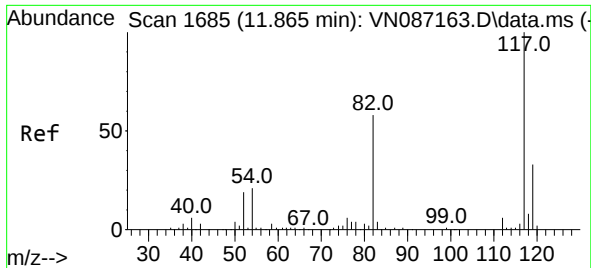
97 100

83 0.0 69.6 104.4#

85 0.0 42.0 63.0#

99 214.5 50.8 76.2#

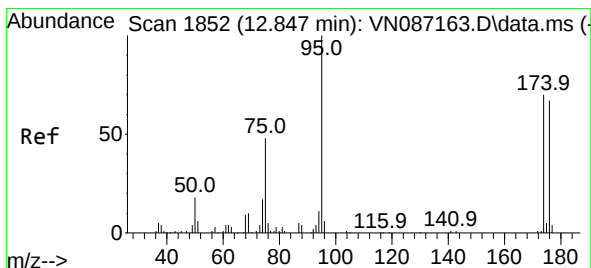
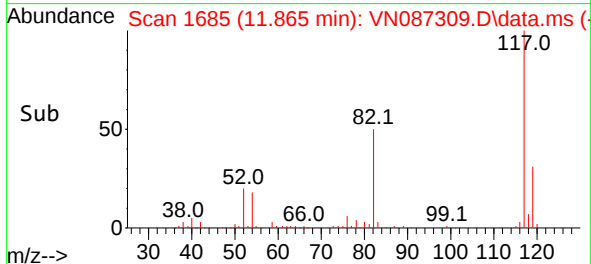
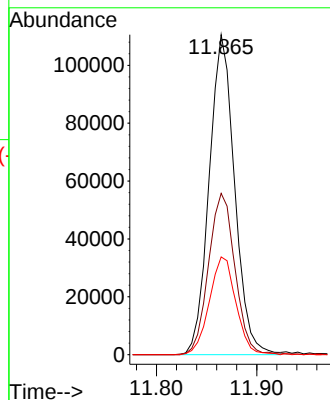
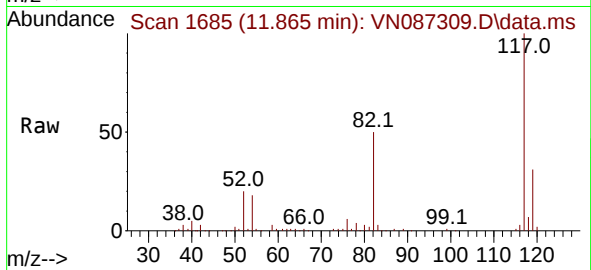




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

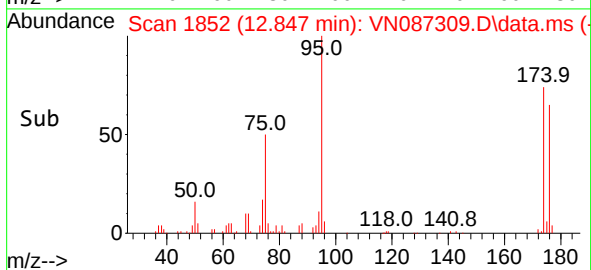
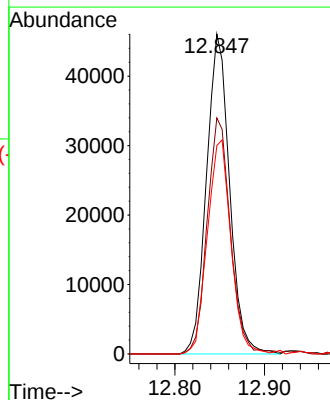
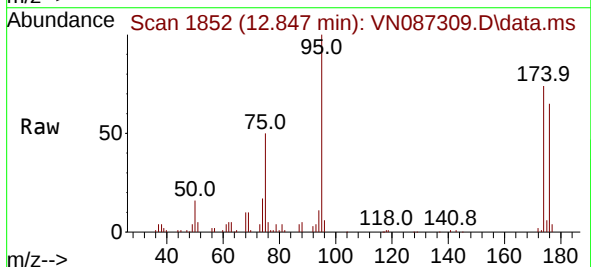
Instrument :
MSVOA_N
ClientSampleId :
VN0709WBL01

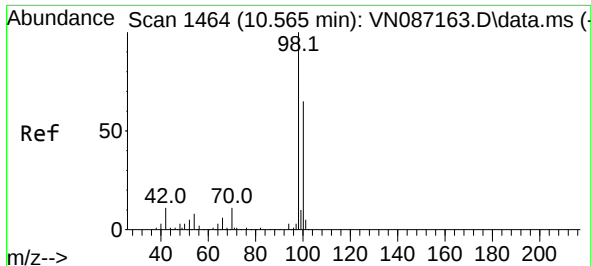
Tgt Ion:117 Resp: 195049
Ion Ratio Lower Upper
117 100
82 52.4 45.4 68.2
119 31.8 26.2 39.4



#60
4-Bromofluorobenzene
Concen: 27.358 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

Tgt Ion: 95 Resp: 82343
Ion Ratio Lower Upper
95 100
174 73.2 54.5 81.7
176 68.1 51.9 77.9

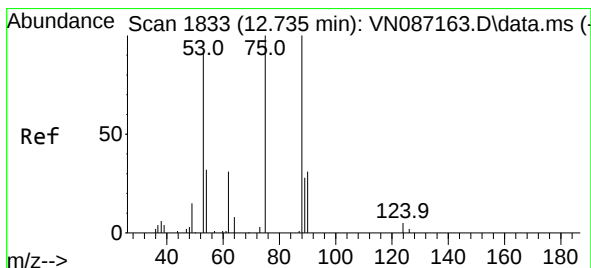
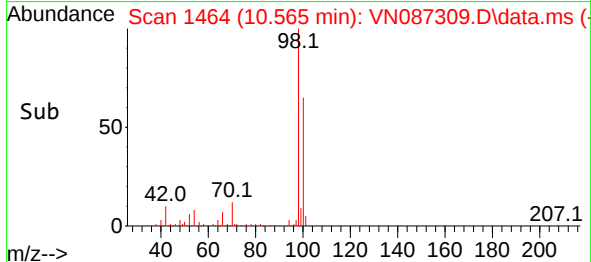
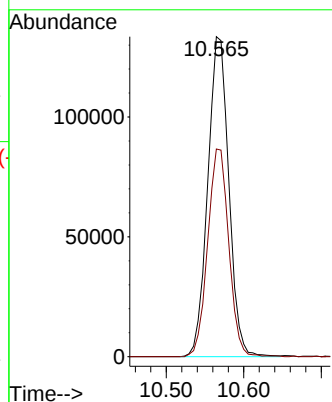
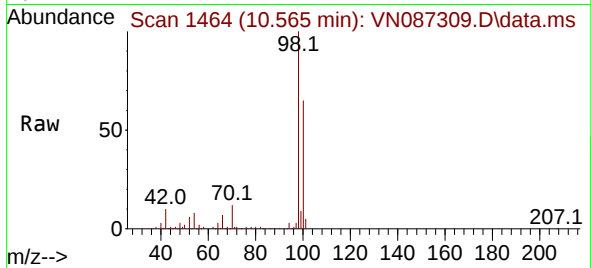




#63
Toluene-d8
Concen: 28.720 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

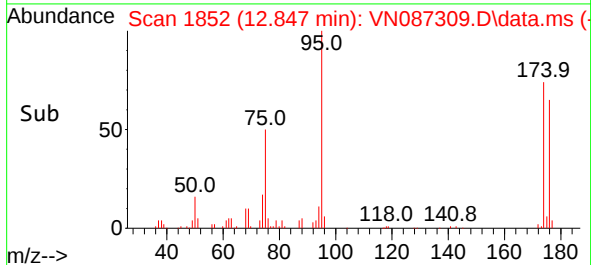
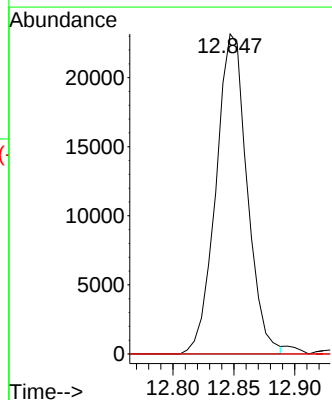
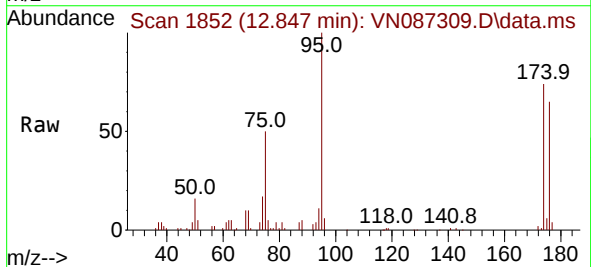
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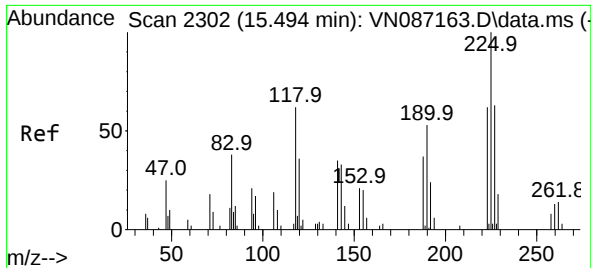
Tgt Ion: 98 Resp: 251523
Ion Ratio Lower Upper
98 100
100 64.7 52.5 78.7



#77
t-1,4-Dichloro-2-butene
Concen: 27.315 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087309.D
Acq: 09 Jul 2025 12:56

Tgt Ion: 75 Resp: 41289
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.6#
89 0.0 22.3 66.9#





#90

Hexachlorobutadiene

Concen: 0.644 ug/l

RT: 15.500 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087309.D

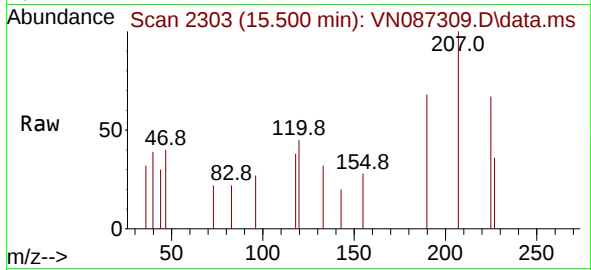
Acq: 09 Jul 2025 12:56

Instrument :

MSVOA_N

ClientSampleId :

VN0709WBL01



Tgt Ion:225 Resp: 523

Ion Ratio Lower Upper

225 100

223 49.7 0.0 134.2

227 18.7 0.0 122.6

